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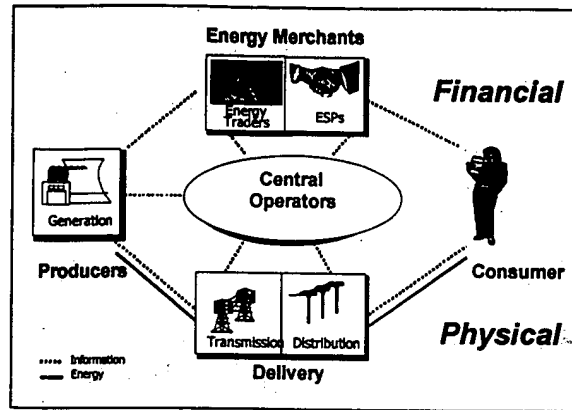


Figure 1

09421713-102099

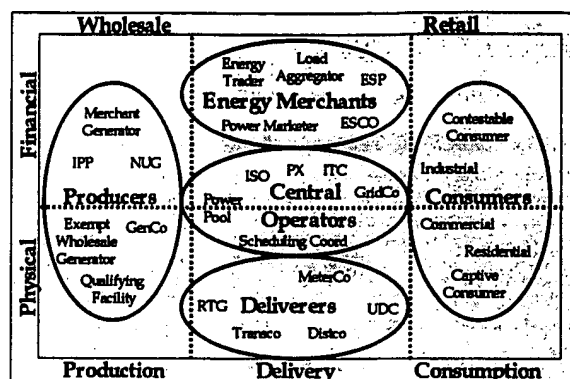
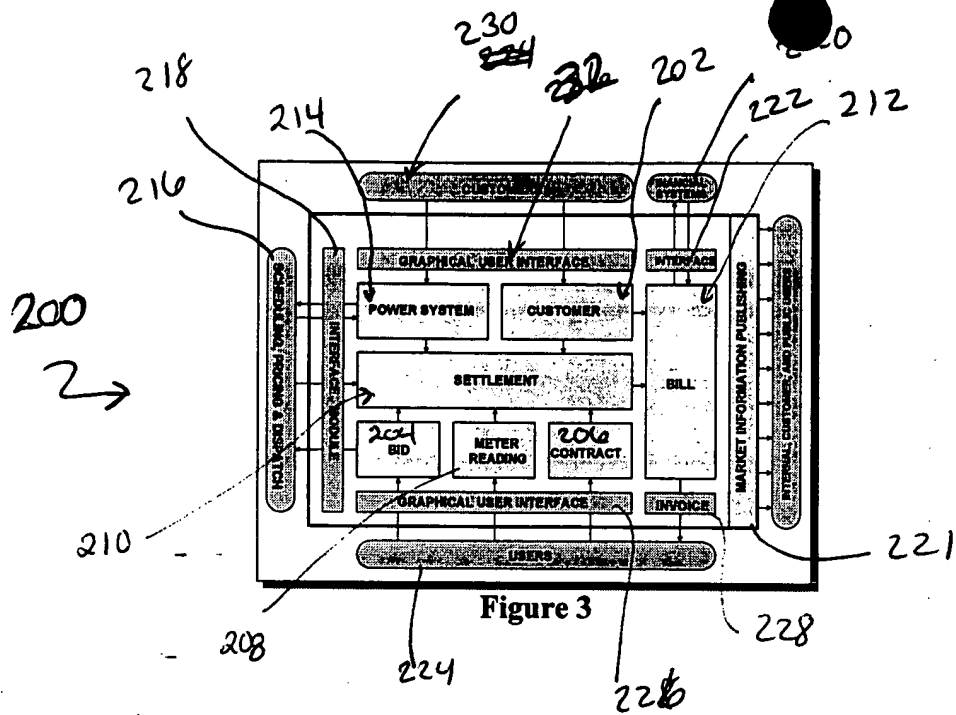


Figure 2



09421713-102099

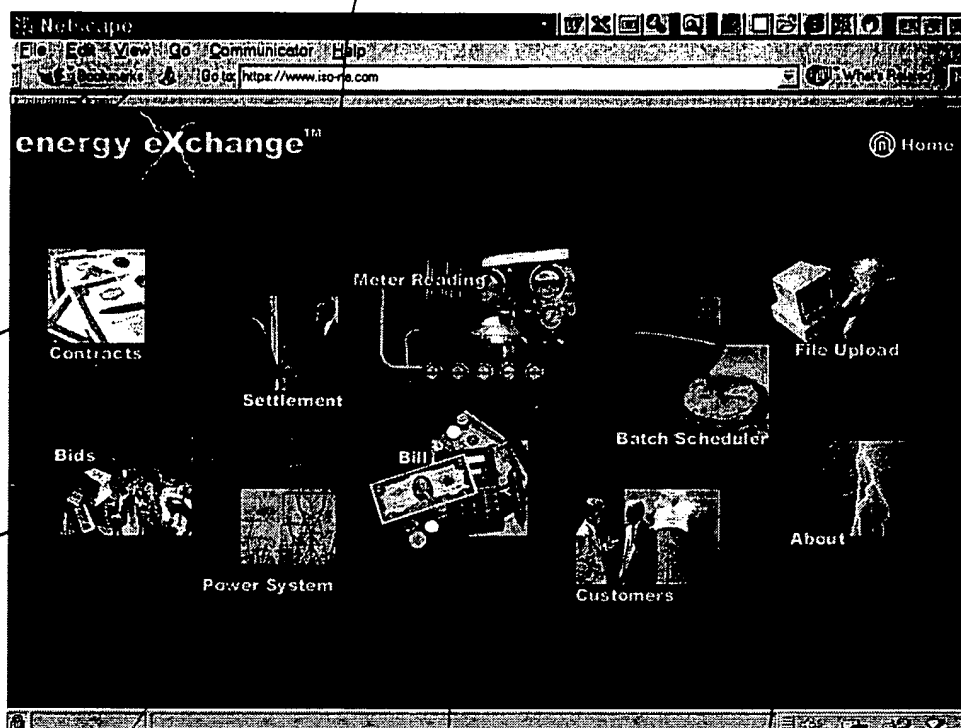


Figure - Home page as seen in Netscape browser

210

212

202

[Bid Information](#) | [Energy](#) | [AGC](#) | [Reserve](#) | [Capability](#) | [Resource Characteristics](#) | [Maintenance](#)

Current Date: Nov 10, 1998

Participant: Cadillac Gen Co.

1: Enter Customer Search Criteria
☒ Customer ID *
☐ Customer Name
 As of: 11/10/1998

2: Find

3: Select Customer

Identifier	Name
903	Cadillac Gen Co.
904	Mustang Retail Co.
905	Rolls Royce Utility

OK

Bid Submission Deadlines		Date Range
Energy Market	12:00	Nov 12, 1998 - Nov 21, 1998
AGC Market	12:00	Nov 12, 1998 - Nov 21, 1998
Reserve Market	12:00	Nov 12, 1998 - Nov 21, 1998
Operable Capability Market	12:00	Nov 12, 1998 - Nov 21, 1998
Installed Capability Market	12:00	Dec 1, 1998 - Sep 1, 1999
Resource Characteristics	12:00	Nov 12, 1998 - Nov 21, 1998

FIG. 5



Bids



Bid Information Energy AGC Reserve Capability Resource Characteristics Maintenance

Start Helper Edit

1. Select Bidding Action

Create new bid from scratch

2. Select Type of Bid

Normal

3. Select Dispatch Date

Nov 12, 1998

4. Choose Unit or Load

☒ Unit ☐ Dispatchable Load

AVALANCHE GAS

Next

Submit

Clear All

Reset

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

Bid Information
 Energy
 AGC
 Reserve
 Capability
 Resource Characteristics
 Maintenance

Start
 Helper
 Edit

4. Enter Data

Bid Helper

Block Selection

Bid Block

Begin (hour ending)

End (hour ending)

End Column

Amount (M00)

Price (\$)

Fill

Submit
 Clear All
 Reset

Enter Normal bid for Cadillac Gen Co., AVALANCHE GAS Unit for Nov 12, 1998

701 702 703

Hr End	SS	LOL	HQIL	100	434	Total
0100	0	60	534	15.0	25.0	534
0200	0	60	534	15.0	25.0	
0300	0	60	534	15.0	25.0	
0400	0	60	534	15.0	25.0	
0500	0	60	534	15.0	25.0	
0600	0	60	534	15.0	25.0	
0700	0	60	534	15.0	25.0	
0800	0	60	534	15.0	25.0	
0900	0	60	534	15.0	25.0	
1000	0	60	534	15.0	25.0	

Claimed Low Limit (M00)

Seasonal Claimed Capability (M00)

Energy Bid Submission Confirmation	
<p>Asset Identifier: 101 Asset Type: Generating Unit Date: Nov 12, 1998 Submitted on: Tue Nov 10 17:39:41 EST 1998 Validation Status: Success Validation Message: Validation successful Process Status: Success Process Message: Processing Successful.</p>	
<p>Signed by: ISO New England</p>	
<p>Claimed Low Limit (MW)</p>	<p>Seasonal Claimed Capability (MW)</p>
<p>60.0</p>	<p>5310</p>

Fig. 8

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Bids

Home

Bid Information Energy AGC Reserve Capability Resource Characteristics Maintenance

Start Helper Edit

1. Select Bidding Action

Create new bid from scratch

2. Select Dispatch Date

Nov 12, 1998

3. Choose Unit

AVALANCHE GAS

Next

Submit

Clear All

Reset

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

[Bid Information](#) [Energy](#) [AGC](#) [Reserve](#) [Capability](#) [Resource Characteristics](#) [Maintenance](#)

Enter AGC bid for Cadillac Gen Co., AVALANCHE GAS Unit for Nov 12, 1998

[Start](#) [Help](#) [Edit](#)

4. Enter Data

Bid Helper

Begin (hour, ending)
 End (hour, ending)
 Price (\$)

Hr End	AGC (\$/hr)
0100	22.0
0200	22.0
0300	22.0
0400	22.0
0500	22.0
0600	22.0
0700	22.0
0800	22.0
0900	22.0
1000	22.0
1100	22.0
1200	22.0

[Edit Bid](#) [Edit AGC Characteristics](#) 100

[Submit](#) [Clear All](#) [Reset](#)

FIG. 10



Bid Information Energy AGC Reserve Capability Resource Characteristics Maintenance

Start Helper Edit

1. Select Bidding Action

Create new bid from scratch

2. Select Type of Reserve Bid

10 Min Spinning (TMSR)

3. Select Dispatch Date

Nov 12, 1998

4. Choose Unit or Load

Unit Dispatchable Load

AVALANCHE GAS

Next

Submit

Clear All

Reset

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

[Bid Information](#) [Energy](#) [AGC](#) [Reserve](#) [Capability](#) [Resource Characteristics](#) [Maintenance](#)

[Start](#) [Helper](#) [Edit](#)

5. Enter Data

Bid Helper

Begin (hour ending)
 End (hour ending)
 Price (\$)

Enter 10 Min Spinning (TMSR) Reserve bid for Cadillac Gen Co., AVALANCHE GAS Unit for Nov 12, 1998

Hr End	TMSR (\$/MWh)
0100	15.55
0200	15.55
0300	15.55
0400	15.55
0500	15.55
0600	15.55
0700	15.55
0800	15.55
0900	15.55
1000	15.55
1100	15.55
1200	15.55

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Home

Bids

Bid Information Energy AGC Reserve Capability Resource Characteristics Maintenance

Start Helper Edit

1. Select Bidding Action

Create new bid from scratch

2. Select Market

☒ Operable Capability

☐ Installed Capability

3. Select Dispatch Date

Nov 12, 1998

Next

Submit Clear All Reset

Contracts File Upload Meter Readings Bill
Batch Scheduler Settlement Power System Customers About

Start Edit

1. Select Submission Action
Edit an existing

2. Select Dispatch Date
Nov 12, 1998

3. Select Unit or Load
☒ Unit ☐ Dispatchable Load
AVALANCHE GAS

Next

Submit Clear All Reset

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Bids

Home

Bid Information | Energy | AGC | Reserve | Capability | Resource Characteristics | Maintenance

Start | Edit

1. Select Submission Action

Edit an existing

2. Select Dispatch Date

Nov 12, 1998

3. Select Unit or Load

☒ Unit ☐ Dispatchable Load

AVALANCHE GAS

Next

Submit

Clear All

Reset

Enter characteristics for Cadillac Gen Co., AVALANCHE GAS Unit for Nov 12, 1998

Unit Characteristics

Minimum Run Time (hr)

22

Minimum Shutdown Time (hr)

24

Startup Time From Cold Conditions (hr)

5

Shutdown Time

25

Startup Time From Hot Conditions (hr)

5

Manual Response Rate (MW/min)

3.4

Hours Of Startup

0

Startup Profile

Reserve Capability When Off-Line

MW Available In 10 Minutes

10.0

MW Available In 30 Minutes

15.0

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

Applet MAIN_APPLET running

716.17

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Bids

Home

Bid Information | Energy | AGC | Reserve | Capability | Resource Characteristics | Maintenance

Bid Parameters**Select Action**☒ Edit Existing Parameters☐ Create New Parameters**Effective From:**

Nov 11, 1998

Next

Submit

Clear All

Reset

Contracts**File Upload****Meter Readings****Bids****Bill****Batch Scheduler****Settlement****Power System****Customers****About**

[Bid Information](#) | [Energy](#) | [AGC](#) | [Reserve](#) | [Capability](#) | [Resource Characteristics](#) | [Maintenance](#)

Bid Parameters

Select Action

☒ Edit Existing Parameters☐ Create New Parameters

Effective From:

Nov 11, 1998

Next

Submit

Clear All

Reset

Effective From: Nov 10, 1998 To: Nov 17, 1998

Bid Submission Deadline

Energy Market

12:00

Reserve Market

12:00

AGC Market

12:00

Installed Capability Market

12:00

Operable Capability Market

12:00

Resource Characteristics

00:00

Other Parameters

Number of Advance Bids that can be submitted

10

Number of Prior Bids that can be retrieved

10

Maximum High Operating Limit percentage over Seasonal Claimed Capability

25.0

Make Modification Effective From:

Nov 11, 1998

Contracts

Batch Scheduler

File Upload

Settlement

Meter Readings

Power System

Bids

Customers

Bill

About

energy exchange™

Contracts



New Search Result Helper

1. Select Contract Type

Internal
External

Unit
Load
System
Obligation

2. Select Market Product(s)

Energy
AGC
OPCAP
ICAP
TMSR
TMNSF
TMOR

3. Specify Contract Duration (Hour Ending)

Begins 12/15/1998 01:00
Ends 12/15/1998 24:00

Life of the Unit/Load

Next

Clear All

Submit

General Info Details Schedule Info Pre-Determined Cond ICAP Adj

Contracts

File Upload

Bill

Batch Scheduler

Settlement

Meter Readings

Bids

Power System

Customers

About



Contracts



New	Search	Result	Helper
-----	--------	--------	--------

1. Select Contract Type

Internal	Unit
External	Load
	System
	Obligation

2. Select Market Product(s)

Energy	TMNR	TMNSF	TMOR
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AGC			
OPCAP			
ICAP			

3. Specify Contract Duration (Hour Ending)

Begins	12/15/1998	01:00	Next
Ends	12/15/1998	24:00	

Enter Asset Contract Details:

Asset Name	AVALANCHE GAS
Asset Percentage (%)	25.5

(Percent carried to 4 decimal places, e.g. 80.1234)

Clear All

Submit

Contracts

File Upload

Batch Scheduler

Meter Readings

Power System



Customers



About



Contracts



<input type="button" value="New"/> <input type="button" value="Search"/> <input type="button" value="Result"/> <input type="button" value="Helper"/>	1. Select Contract Type <div style="display: flex; justify-content: space-around;"> <div> <input checked="" type="radio"/> Internal <input type="radio"/> External </div> <div> <input checked="" type="radio"/> Unit <input type="radio"/> Load <input type="radio"/> System <input type="radio"/> Obligation </div> </div>		
2. Select Market Product(s) <div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> Energy <input type="checkbox"/> AGC <input type="checkbox"/> OPCAP <input type="checkbox"/> ICAP </div> <div> <input type="checkbox"/> TMSR <input type="checkbox"/> TMNSF <input type="checkbox"/> TMOR </div> </div>			
3. Specify Contract Duration (Hour Ending) <div style="display: flex; justify-content: space-between;"> <div> Begins: 12/15/1998 01:00 Ends: 12/15/1998 24:00 </div> <div> <input type="checkbox"/> Life of the Unit/Load </div> </div>			
<input type="button" value="Next"/>			

Based on <input checked="" type="radio"/> Unit <input type="radio"/> External Contract	Enter Unit ID: <input style="width: 80%;" type="text"/>	Units Selected: <input style="width: 80%;" type="text"/>	Amount (MW) (Up to 3 decimal places) <input style="width: 80%;" type="text"/>
Availability: <input checked="" type="radio"/> <input type="radio"/> Generation		Add to List	

ID Unit: 102	Type Availability	Comparison >=	Power 5.65	Condition END
-----------------	----------------------	------------------	---------------	------------------

General Info

Details

Schedule Info

Pre-Determined Cond

ICAP Adj

Contracts	File Upload	Meter Readings	Bids	Bill
Batch Scheduler	Settlement	Power System	Customers	About



Home

New

Search

Result

Help

1. Select Contract Type

Internal

External

Unit

System: w/ Unit Char.

System Firm

2. Select Market Product(s)

ICAP

Energy 1

(sold out of Op. Reserve & no OpCap)

Energy 2

(not sold out of Op. Reserve & w/ OpCap)

3. Specify Contract Duration (Hour Ending)

Begins

12/15/1998

01:00

Ends

12/15/1998

24:00

Life of the Unit/Year

Next

General Info	Details	Schedule Info	Pre-Determined Cond	ICAP Adj
--------------	---------	---------------	---------------------	----------

Clear All

[illegible]

Contracts

File Upload

Meter Readings

Spire

Batch Scheduler

Power System

Customers

About

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Contracts**Home**

New Search Result Helper

1. Select Contract Type☒ Internal
☐ External☐ Unit
☐ System w/ Unit Char
☒ System ☐ Firm**2. Select Market Product(s)**☒ ICAP☒ Energy 1

(sold out of Op. Reserve & no OpCap)

☐ Energy 2

(not sold out of Op. Reserve & w/ OpCap)

3. Specify Contract Duration (Hour Ending)

Begins 12/15/1998 01:00

Ends 12/15/1998 24:00

☐ Life of the Unit/Op

Next

Clear All

Submit

Contract ID

Parties

☒ Seller

Mercedes Utility

☐ Buyer

New York

☐

With Pre-determined Condition (for ext. purchase)

Reference ID 1234

Non-Standard ID

56789

ICAP/Contract ID

Hydro-Quebec

Not Applicable to Hydro Quebec

General Info

Details

Schedule Info

Pre-Determined Cond

ICAP Adj

Contracts**File Upload****Meter Readings****Bids****Bill****Batch Scheduler****Settlement****Power System****Customers****About**



Contracts

 Home

New	Search	Result	Helper
-----	--------	--------	--------

1: Select Table Area To Populate

Self Schedule Amount

2: Enter Time Range

Start Time

1

End Time

24

3: Enter Values

Amount (MWh)

50

Cancel

Fill

Clear All

Submit

Date: 12/15/1998

Dispatchable ☐ Must Take ☒ Combo ☐

Enter MW Amounts (in header row) and Rates in \$ (in remaining rows)

Hr Ending	\$S
0100	0.0
0200	0.0
0300	0.0
0400	0.0
0500	0.0
0600	0.0
0700	0.0
0800	0.0

Short Notice ☐

Apply the data to:
☐ All Weekdays (Mon-Fri)
☐ All Weekends (Sat & Sun)

Apply Now

Schedule Info Pre-Determined Cond ICAP Adj Details General Info

Contracts

File Upload

Batch Scheduler

Power System

Meter Readings

Bids

Customers

[Home](#)
[About Us](#)
[Our Staff](#)
[Our Services](#)

About

1.5.1 et C ntract Type

Internal ☐ External ☐

Unit ☐ System w/ Unit Char. ☐

System ☐ Firm ☐

2. Select Market Product(s)

<input type="checkbox"/>	ICAP
<input checked="" type="checkbox"/>	Energy 1
<input type="checkbox"/>	Energy 2
<input type="checkbox"/>	Sold out of Op. Reserve & no OpCap

3.3. Specify Contract Duration (Hour Ending)

Begins	12/15/1998	1	01:00	⏪ ⏴ ⏵ ⏩
Ends	12/15/1998	2	24:00	⏪ ⏴ ⏵ ⏩
Life of the Universe				
Next				

Clear All Submit

Date 12/15/1998 ☐ Dispatchable ☒ Must Take ☐ Combo

Enter MW Amounts (in header row) and Rates in \$ (in remaining rows):

[illegible]

☐ **Short Notice**

☐ **Apply the data to**

☐ **All Weekdays (Mon-Fri)**
☐ **All Weekends (Sat & Sun)**

General Info

Details

Schedule Info

Pre-Determined Cond

ICAP Adj

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Contracts

Home

New

Search

Result

Helper

1. Select Contract Type

☐ Internal
☐ External

☐ Unit
☐ System w/ Unit Char.
☒ System ☐ Firm

2. Select Market Product(s)

☐ ICAP

☒ Energy 1

(sold out of Op. Reserve & no OpCap)

☐ Energy 2

(not sold out of Op. Reserve & w/ OpCap)

3. Specify Contract Duration (Hour Ending)

Begins 12/15/1998 01:00

Ends 12/15/1998 24:00

☐ Life of the Unit/Load

Next

Based on

☒ Unit

☐ External Contract

Enter Unit ID

Units Selected

A

V

☒ Availability

☒ >=

Amount (MWh)

(Up to 3 decimal places)

Add to List

ID

Unit: 103

Type

Availability

Comparison

>=

Power

10.25

Condition

END

Clear All

Submit

Remove from List

General Info

Details

Schedule Info

Pre-Determined Cond

ICAP Adj

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

Applet MAIN.APPLET running

FIG. 28

<input type="button" value="New"/>	<input type="button" value="Search"/>	<input type="button" value="Result"/>	<input type="button" value="Help"/>
------------------------------------	---------------------------------------	---------------------------------------	-------------------------------------

1. Select Search Criteria

Choose at least one:

<input type="checkbox"/>	Contract ID	<input type="text"/>
<input type="checkbox"/>	Reference ID	<input type="text"/>
<input checked="" type="checkbox"/>	Type	<div> <input type="radio"/> Internal </div> <div> <input type="radio"/> External </div>
<input type="checkbox"/>		<div> <input type="radio"/> Unit </div> <div> <input checked="" type="radio"/> System </div> <div> <input type="radio"/> Firm </div>
		Obligation

Optional:

<input type="checkbox"/>	Party	Seller Nm	<input type="text"/>
		Buyer Nm	<input type="text"/>
<input type="checkbox"/>	Market Product	Energy	<input type="text"/>
<input type="checkbox"/>	Duration	Begins <input type="text"/> / <input type="text"/> / <input type="text"/> Ends <input type="text"/> / <input type="text"/> / <input type="text"/>	

General Info	Details	Schedule Info	Pre-Determined Cond	ICAP Adj
--------------	---------	---------------	---------------------	----------

New	Search	Result	Helper
-----	--------	--------	--------

2.5.1 ct Existing Contract

Contract ID	Reference ID	Int/Ext
510		Internal
511		Internal
512		Internal
513		Internal
514		Internal
515		Internal
6486	12345	Internal
6326		Internal
6327		Internal
6346		Internal
6366		External
6386	SNTAfterNoon	External
6387	SNTAfterNoon	External

ਅੰਤਰ

三

Create

Clear All

1. 1000
 2. 1000
 3. 1000
 4. 1000
 5. 1000
 6. 1000
 7. 1000
 8. 1000

General Info

Details

Schedule Info

Pre-Determined Card

14-00000

Contracts

File Upload

Meter Readings

Spib



Batch Scheduler

Settlement

Power System

Customers

About

energy exchange™

Customers



New Existing

Search On

Name

C*

ID

As of:

11/10/1998

Find

Name

Cadillac Gen Co.

ID

903

OK

Customer Detail

Customer Type

☒ Participant

☐ Non-Participant

☐ Pool Operator

Governance Requirements Status

☐ All Requirements Participant

Pool Status

☒ Active

☐ Suspended

☐ Terminated

Settlement Status

☒ Will Be Settled

☐ Special Contract Processing (HQP)

☒ Has Voting Share

General

Address

903

Contact

Cadillac Gen Co.

Duns

Related

Assets

Governance

2/320

Customer ID

903

As of

11/11/1998

End

11/11/1998

Submit

Reset

Contracts

Batch Scheduler

File Upload

Settlement

Meter Readings

Power System

Bids

Customers

Bill

About

energy exchange™

Customers



New Existing

Search On

Name

C*

ID

As of:

11/10/1998

Find

Name

Cadillac Gen Co.

ID

903

OK

Contact

Type

General

Salutation

Mrs.

Last Name

Meyers

First Name

Natalie

Title

Carpenter

Phone

(815) 45-2600

Ext

23

Fax

(203) 888-8888

e Mail

company@cadillac.com

Notes

Notes as of Nov 8

General

Address

Contact

Duns

Related

Assets

Governance

Customer ID

903

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

Submit

Reset

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

energy exchange™

Customers



New Existing

Search On

Name

C*

ID

As of:

11/10/1998

Find

Name

Cadillac Gen Co.

ID

903

OK

Duns

Number

Add

Effective From/To

As of

11/11/1998

End

Remove

Duns Number	From	To
11-223-3445	11/11/1998	

General Address Contact Duns Related Assets Governance

Customer ID

903

As of

11/11/1998

Customer Name

Cadillac Gen Co.

End

/ /

Submit

Reset

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

energy exchange™

Customers

[Home](#)

New Existing

Search On

Name

ID

As of:

11/10/1998

Find

Name

Cadillac Gen Co.

ID

903

OK

To associate this customer with other existing customers, select the appropriate customer from the customer list table, set the effective date, and click "Add".

Name

ID

*

Find

Effective From/To

From: 11/11/1998

To: 12/9/1998

Add

Remove

Name

Cadillac Gen Co.
Mustang Retail Co.
Rolls Royce Utility

ID

903
904
905

Related Customer Name

From

To

Mustang Retail Co.

11/06/1998

11/07/19

General

Address

Contact

Duns

Related

Assets

Governance

Customer ID

903

As of

11/11/1998

End

/ /

Submit

Reset

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

energy exchange™

Customers

Home

New Existing

Search On

Name

C*

ID

A of:

11/10/1998

Find

Name

Cadillac Gen Co.

ID

903

OK

Assets

For additional information on to assign an asset, go to
"Power System Maintenance"

Asset Name	Type	Type of Responsibility	% Own d
PANTHER P/S PUMP	Load Facility		40.0
AVALANCHE GAS	Generating Unit	Lead Participant / Meter Reader	5.0E-4
MIGHTY DUCK LOAD	Load Facility		19.0001
PANTHER P/S GEN	Generating Unit		80.9999

General

Address

Contact

Duns

Related

Assets

Governance

Customer ID

903

As of

11/11/1998

Customer Name

Cadillac Gen Co.

End

/ /

Submit

Reset

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About



New Existing

Search On

☐ Name☐ ID☐ A. off.

C*

11/10/1998

Find

Name

Cadillac Gen Co.

ID

903

OK

Governance

For the month of:

October

1998

Peak Load (P)

10.0

Total Load (E)

50.

Generation Ownership (G)

150.

Entitlements (X)

75.

Transmission KV-Miles (M)

5,798

Transmission Revenue Requirement (R)

\$ 60.00

Submit

Reset

Clear

Contact

Duns

Related

Assets

Governance

User Profile

Agent

Customer ID

903

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

Submit

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About


energy exchange™

Customers

 Home

New Existing

Search: On

☐ Name☐ ID

As of:

11/10/1998

Find

Name

Cadillac Gen Co.

ID

903

OK

User Profile Maintenance

User ID

555555555

Find

User Name

test

Begin Date

11/11/1998

☐ End

Access Area

Modify View None

Customer

Governance

Power System

Bidding Info

Bidding Maint

Contract

Bill

Settlement

Pricing

Set Job Sub

Billing Job Sub

Gov Job Sub

Metering

Operations

Users List

555555555

Add

Remove

Submit

Reset

Contact

Duns

Related

Assets

Governance

User Profile

Agent

Customer ID

903

As of

11/11/1998

☒ End

/ /

Customer Name

Cadillac Gen Co.

Submit

Reset

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

energy exchange™

Customers



Home

New Existing

Search On

Name

C*

ID

As of:

11/10/1998

Find

Name

Cadillac Gen Co.

ID

903

OK

Agent Maintenance

Name

*

ID

Find

Name

ID

Mustang Retail Co.

904

Rolls Royce Utility

905

Mercedes Utility

906

Nissan NUG

908

New York

909

Hydro-Quebec

50001

Add

Remove

Effective From/To

From

11/11/1998

End

Agent

From

11/10/1998

T

Submit

Reset

Contact

Duns

Related

Assets

Governance

UserProfile

Agent

Customer ID

903

As of

11/11/1998

End

/ /

Submit

Reset

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

FIG 40

energy exchange™

Power System



Network Area | Network Node | Generating Unit | Load Facility | Tie Line | 4101

New Existing Search Results

Search Results

2 Selected Network Area

Identifier	Description
32	NEPOOL
33	PTF
34	External
35	MEPCO
36	HQ

OK

Submit

Reset

Network Area Identifier: 32

Network Area Description: NEPOOL

This information effective: 11/13/1998

Network Nodes in this Network Area

Identifier	Description
401	PTF
402	WEST
403	EAST

<< Add

Remove >>

Network Nodes NOT in this Network Area

Identifier	Description
404	HQIC
405	HQ
406	MEPCO
407	NB
408	NY

- Contracts
- Batch Scheduler
- File Upload
- Meter Readings
- Bids
- Settlement
- Power System
- Customers
- Bill
- About

Network Area	Network Node	Generating Unit	Load Facility	Tie Line
--------------	--------------	-----------------	---------------	----------

Existing	New	Search Results	Network Node Identifier:	402
----------	-----	----------------	--------------------------	-----

Find Network Node

1. Enter Search Criteria

Node Identifier

Area Identifier:

Location:

Notes:

Find

Submit Reset

Submit Reset

Submit Reset Network Area Generating Unit

Submit Reset Network Area Generating Unit

Submit Reset Network Area Generating Unit

Generating Unit

1. Enter Search Criteria

Node Identifier	Identifier	Name
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		
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51		
52		
53		
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83		
84		
85		
86		
87		
88		
89		
90		
91		
92		
93		
94		
95		
96		
97		
98		
99		
100		

Area Identifier	Area Number	Area Name
103	103	LIGHTNING HYDR
104	104	DALLAS STAR

Generating Unit

1. Enter Search Criteria

Node Identifier	Identifier	Name
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
28	28	28
29	29	29
30	30	30
31	31	31
32	32	32
33	33	33
34	34	34
35	35	35
36	36	36
37	37	37
38	38	38
39	39	39
40	40	40
41	41	41
42	42	42
43	43	43
44	44	44
45	45	45
46	46	46
47	47	47
48	48	48
49	49	49
50	50	50
51	51	51
52	52	52
53	53	53
54	54	54
55	55	55
56	56	56
57	57	57
58	58	58
59	59	59
60	60	60
61	61	61
62	62	62
63	63	63
64	64	64
65	65	65
66	66	66
67	67	67
68	68	68
69	69	69
70	70	70
71	71	71
72	72	72
73	73	73
74	74	74
75	75	75
76	76	76
77	77	77
78	78	78
79	79	79
80	80	80
81	81	81
82	82	82
83	83	83
84	84	84
85	85	85
86	86	86
87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

103 LIGHTNING HYDR

Details

Contracts **File Upload** **Meter Readings**

Contracts **File Upload** **Meter Readings**

Contracts **File Upload** **Meter Readings**

Contracts **File Upload** **Meter Readings**

Contracts **File Upload** **Meter Readings**

Contracts **File Upload** **Meter Readings**

Contracts **File Upload** **Meter Readings**

Contracts **File Upload** **Meter Readings**

Contracts **File Upload** **Meter Readings**

Network Area

Network Node

Generating Unit

Load Facility

Tie Line

New

Existing

Search Results

Find Network Node

1. Enter Search Criteria

Node Identifier *

Area Identifier

Find

Submit

Reset

Network Node Identifier: 402

This information effective: 11/13/1998

Network Node Description: WEST

Load Facility

Load Facilities associated with this Network Node

Identifier	Name
201	MIGHTY DUCK LO
202	HURRICANE LOAD
206	COYOTE LOAD
1402	402 Losses

Details

<< Move

1. Enter Search Criteria

Load Identifier

Find

3. Select Load Facility

Identifier Name Id

Contracts

Batch Scheduler

File Upload

Settlement

Meter Readings

Power System

Bids

Customers

Bill

About

energy exchange™

Power System

Home

Network Area

Network Node

Generating Unit

Load Facility

Tie Line

New

Existing

Search Results

Network Node Identifier: 402

Network Node Description: WEST

This information effective: 11/13/1998

Find Network Node

1. Enter Search Criteria

Node Identifier *

Area Identifier

Find

Find Tie Line

1. Enter Search Criteria

Tie Line Identifier

Find

2. Select Tie Line

Monitor

Receive

<< Move

3. Select Tie Line

Identifier

Name

Details

Network Area

Generating Unit

Load Facility

Tie Line

Contracts

Batch Scheduler

File Upload

Meter Readings

Bids

Bill

Settlement

Power System

Customers

About

F16. 45

energy exchange™

Power System

[Home](#)
[Network Area](#) | [Network Node](#) | [Generating Unit](#) | [Load Facility](#) | [Tie Line](#)
[New](#) | [Existing](#) | [Search Results](#)

Generating Unit Identifier: 101

Generating Unit Name: AVALANCHE GAS

Changes made effective from: 11/13/1998

Search Results

2. Selected Generating Unit

Id ntifier	Name
101	AVALANCHE GAS
102	PANTHER P/S GEN
103	LIGHTNING HYDRO
104	DALLAS STAR

OK

Submit

Reset

Network Node Association

Network Node Identifier

403

Details

Generating Unit Details

Plant Name: X

Operating Status: Active

Type: Gas

Winter Claimed Capability: 534.0 MW

Summer Claimed Capability: 551.37 MW

Claimed Low Limit: 60.0 MW

General

Status

Staffing

Ownership

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

energy exchangeTM

Power System


[Home](#)
[Network Area](#) | [Network Node](#) | [Generating Unit](#) | [Load Facility](#) | [Tie Line](#)
[New](#) | [Existing](#) | [Search Results](#)

Changes made effective from:

11/13/1998

Generating Unit Identifier: 101

Generating Unit Name: AVALANCHE GAS

Search Results

2. Select Generating Unit

Id ntifier	Name
101	AVALANCHE GAS
102	PANTHER P/S GEN
103	LIGHTNING HYDRO
104	DALLAS-STAR

OK

Submit

Reset

AGC Market

Max # of AGC Ranges: 2

Black Start Capability

☐ Yes

☒ No

Market Status

Market	Status
Energy	Active
AGC	Active
TMSR	Active
TMNSR	Active
TMOR	Active

Contracts

Batch Scheduler

File Upload

Settlement

Meter Readings

Power System

Bids

Customers

Bill

About


energyexchange™

Power System

 HomeNetwork Area | Network Node | **Generating Unit** | Load Facility | Tie LineNew | Existing | **Search Results**

Generating Unit Identifier:

101

Generating Unit Name:

AVALANCHE GAS

Changes made
effective from:

11/13/1998

Search Results**2. Select Generating Unit**

Id ntifier	Name
101	AVALANCHE GAS
102	PANTHER P/S GEN
103	LIGHTNING HYDRO
104	DALLAS STAR

OK

Submit

Reset

Weekly Staffing

Days	Start Time	Stop Time	Call-In Time	Unstaffed
Weekdays	1900	1900	2.0 hrs	<input type="checkbox"/>
Saturday	1900	1900	2.0 hrs	<input type="checkbox"/>
Sunday	1900	1900	2.0 hrs	<input type="checkbox"/>

Use the same times for all days

All Days

General / Status / **Staffing** / Ownership**Contracts****File Upload****Meter Readings****Bids****Bill****Batch Scheduler****Settlement****Power System****Customers****About**



energy exchange™

Power System



Home

Network Area | Network Node | Generating Unit | Load Facility | Tie Line

New

Existing

Search Results

Generating Unit Identifier: 101

Generating Unit Name: AVALANCHE GAS

Changes made effective from: 11/13/1998

Search Results

2. Select Generating Unit

Identifier	Name
101	AVALANCHE GAS
102	PANTHER P/S GEN
103	LIGHTNING HYDRO
104	DALLAS STAR

OK

Submit

Reset

Customer Name

Ownership Share

%

Lead Participant

Meter Reader

OK

Customer

Share

Cadillac Gen Co.
Rolls Royce Utility39.9999
60.0001

Total

100.0000

Lead Participant

Cadillac Gen Co.

Meter Reader

Cadillac Gen Co.

1. Enter Customer Search Criteria

☒ Customer ID

Customer ID

☐ Customer Name

Customer Name

Find

3. Select Customer

Identifier

Name

OK

Submit

Reset

General | Status | Staffing | Ownership

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

Fig. 49



Network Area | Network Node | Generating Unit | Load Facility | Tie Line

New | Existing | Search Results

Changes made
effective from:

11/13/1998

Load Facility Identifier:

202

Load Facility Name:

HURRICANE LOAD

Search Results

2. Select Load/Facility

Identifier	Name
201	MIGHTY DUCK LOAD
202	HURRICANE LOAD
203	SABRE LOAD
204	FLAME LOAD
205	CAPITAL LOAD
206	COYOTE LOAD

OK

Submit

Reset

Network Node Association

Network Node Identifier

402

Details

Load Facility Details

Estimated Peak Load

1000.0

MW

Operating Status

Active

Type

Normal

Dispatchable

Yes

No

Metered

Yes

No

General

Ownership

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

F16.50

energy exchange™

Power System


[Home](#)
[Network Area](#) | [Network Node](#) | [Generating Unit](#) | [Load Facility](#) | [Tie Line](#)
[New](#) | [Existing](#) | [Search Results](#)

Changes made effective from: 11/13/1998

Search Results

2. Select Load Facility

Id ntifier	Name
201	MIGHTY DUCK LOAD
202	HURRICANE LOAD
203	SABRE LOAD
204	FLAME LOAD
205	CAPITAL LOAD
206	COYOTE LOAD

OK

Submit

Reset

Load Facility Identifier: 202

Load Facility Name: HURRICANE LOAD

Customer Name

Ownership Share

%

OK

1. Enter Customer Search Criteria

Customer ID

Customer Name

Find

2.

3. Select Customer

Identifier

Name

OK

Customer

Mustang Retail Co.

Share

100.0000

Total

100.0000

Lead Participant

Meter Reader

General Ownership

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

energy exchange™

Power System



Network Area | Network Node | Generating Unit | Load Facility | Tie Line

New | Existing | Search Results

Changes made effective from:

11/13/1998

Tie Line Identifier: 302

Tie Line Name: Orange

Search Results

2. Select Tie Line

Id ntifier	Name
301	Red
302	Orange
303	Yellow
304	Green
305	Blue
306	Indigo

OK

Submit

Reset

Customer

Customer Name

Meter/Reader

OK

Meter Reader

Meter/Reader

Cadillac Gen. Co.

1. Enter Customer Search Criteria

Customer ID *

Customer Name

Find

2. Select Customer

Identifier

Name

903	Cadillac Gen Co.
904	Mustang Retail Co
905	Rolls Royce Utility
906	Mercedes Utility

OK

General

Ownership

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About


energy exchange™

Batch Scheduler

 Home

General

Billing

Log

Select a Job:

Settle All Hourly Markets
Settle An Hourly Market
Settle Installed Capability Market
Confirm Settlement Data
Confirm All Hourly Settlement Data
Prepare Bill
Print Bill Invoice
Calculate Governance Variables
Calculate Voting Shares
Perform Monthly Meter Adjustment
Determine Hourly Entitlements

Priority:

☐ High☐ Medium☒ Low

Run on:

//

Market Service

Energy

Begin Date

Energy

Begin Time

AGC

End Date

TMSR

End Time

TMNSR

Submit

Clear

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

11/14/54

energy exchange™



Batch Scheduler



General Billing Log

Select a Job:

- Settle All Hourly Markets
- Settle An Hourly Market
- Settle Installed Capability Market
- Confirm Settlement Data
- Confirm All Hourly Settlement Data
- Prepare Bill
- Print Bill Invoice**
- Calculate Governance Variables
- Calculate Voting Shares
- Perform Monthly Meter Adjustment
- Determine Hourly Entitlements

Pri rity: ☐ High ☐ Medium ☒ Low

Run on:

//

Due Date

//

Submit

Clear

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

energy exchange™

Batch Scheduler

Home

General

Billing

Log

Select a Job:

Settle All Hourly Markets

Settle An Hourly Market

Settle Installed Capability Market

Confirm Settlement Data

Confirm All Hourly Settlement Data

Prepare Bill

Print Bill Invoice

Calculate Governance Variables

Calculate Voting Shares

Perform Monthly Meter Adjustment

Determine Hourly Entitlements

Priority:

High

Medium

Low

Run on:

Begin Date

Begin Time

Submit

Clear

Contracts

Batch Scheduler

File Upload

Meter Readings

Bids

Power System

Customers

Bill

About

General Billing Log

Process Bills Rollback Bills

Select Billed Services and Data

<input checked="" type="checkbox"/> Energy	Bill Start Date	01/15/1998 01:00:00 AM	Bill End Date	1/15/1998	06:00:00
<input checked="" type="checkbox"/> AGC	Bill Start Date	01/15/1998 01:00:00 AM	Bill End Date	1/15/1998	06:00:00
<input checked="" type="checkbox"/> TMSR	Bill Start Date	01/15/1998 01:00:00 AM	Bill End Date	1/15/1998	06:00:00
<input checked="" type="checkbox"/> TMNSR	Bill Start Date	01/15/1998 01:00:00 AM	Bill End Date	1/15/1998	06:00:00
<input checked="" type="checkbox"/> TMOR	Bill Start Date	01/15/1998 01:00:00 AM	Bill End Date	1/15/1998	06:00:00
<input type="checkbox"/> Installed Capability	Bill Start Date	01/01/1998 00:00:00 AM	Bill End Date	2/1/1998	00:00:00
<input checked="" type="checkbox"/> Operable Capability	Bill Start Date	01/15/1998 01:00:00 AM	Bill End Date	1/15/1998	06:00:00
<input type="checkbox"/> EHV/LV	Bill Start Date	12/01/1997 00:00:00 AM	Bill End Date		
<input type="checkbox"/> Tariff	Bill Start Date	12/01/1997 00:00:00 AM	Bill End Date		
<input type="checkbox"/> Adjustment	Bill Start Date	12/01/1997 00:00:00 AM	Bill End Date		
<input type="checkbox"/> Bill Data	Bill Start Date	12/01/1997 00:00:00 AM	Bill End Date		

Submit

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

General

Billing

Log

Process Bills

Rollback Bills

Select Billed Services and Data:

<input checked="" type="checkbox"/> Energy	Bill Start Date	01/15/1998 00:00:00 AM	Bill End Date	1/15/1998	01:00:00
<input checked="" type="checkbox"/> AGC	Bill Start Date	01/15/1998 00:00:00 AM	Bill End Date	1/15/1998	01:00:00
<input checked="" type="checkbox"/> TMSR	Bill Start Date	01/15/1998 00:00:00 AM	Bill End Date	1/15/1998	01:00:00
<input checked="" type="checkbox"/> TMSR	Bill Start Date	01/15/1998 00:00:00 AM	Bill End Date	1/15/1998	01:00:00
<input checked="" type="checkbox"/> TMOR	Bill Start Date	01/15/1998 00:00:00 AM	Bill End Date	1/15/1998	01:00:00
<input checked="" type="checkbox"/> Operable Capability	Bill Start Date	01/15/1998 00:00:00 AM	Bill End Date	1/15/1998	01:00:00

Submit

Apple MAIN APPLET running

energy exchange™

Settlement



Administered Price

Parameter Maintenance

Selection

Market:

Energy

Date: From:

Jan 15, 1998

To:

Jan 15, 1998

00:00

01:00

Retrieve

Submit

Energy Market Clearing Price

From	To	Price	Type
01/15/1998 0:00	01/15/1998 1:00	65.08	Data Correction

From	To	Clearing Price	Type
01/15/1998 0:00	01/15/1998 1:00	0000000065.08	Data Correction

Update

Reset

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

energy exchange™**Settlement**

Administered Price | Parameter Maintenance

Selection

Market:

AGC

Date:

From: Jan 15, 1998

00:00

To:

Jan 15, 1998

01:00

Retrieve

Submit

AGC Market Clearing Price

From	To	Price	Type
01/15/1998 0:00	01/15/1998 1:00	50.0	Clearing Price

From	To	Clearing Price	Type
01/15/1998 0:00	01/15/1998 1:00	000000050.00	Clearing Price

Update

Reset

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Power System

Customers

About

fig. 01

energy exchange™

Settlement



Administered Price Parameter Maintenance

Parameter:

Trading Interval

As Of	Market	Length	Measure
01/01/1998 14:17	Energy	1	HOUR

Select Market/Service

Energy
AGC
TMSR
TMNSR
TMOD

Retrieve

Entering Trading Interval value for Energy

As Of	Market	Length	Measure
12/ 1/1998		0	MINUTE

Add

Reset

Submit

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

Administered Price Parameter Maintenance

Parameter:

HQ FEC

As Of	Until	Value
01/01/1998 0:00	01/01/1999 0:00	0.0

Entering Hydro-Quebec Firm Energy Contract Rate Value

As Of	Until	Value		
1 / 1/1998	00:00	1 / 1/1999	00:00	0.0

Add

Reset

Submit

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

Administered Price Parameter Maintenance

Parameter: ISO Objective Capability

Date

Year: 1998-1999

OK

Year	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
1994-1995												
1995-1996												
1996-1997												
1997-1998												
1998-1999	5	10	15	20	25	30	35	40	45	50	55	60

Entering ISO Objective Capability Value

Year	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
1998-1999	5	10	15	20	25	30	35	40	45	50	55	60

Add

Reset

Submit

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

Administered Price Parameter Maintenance

Parameter:

Phase Out Factor

As Of	Until	Value
12/01/1998 0:00	01/01/1999 0:00	20.0

Entering Phase Out Factor Value

As Of	Until	Value
12/1/1998	00:00	1/1/1999
	00:00	20.0

Add

Reset

Submit

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

 **energy exchange™** **Settlement** **Home****Administered Price Parameter Maintenance****Parameter:**

New Unit Adj. Factor

Date**From:**

Dec 1, 1998

00:00

To:

Jan 1, 1999

00:00

OK

Select Asset

PANTHER P/S PUMP

LIGHTNING HYDRO

PANTHER P/S GEN

AVALANCHE GAS

MUSKIE RIVER LOAD

Retrieve

As Of	Until	Value
12/01/1998 0:00	01/01/1999 0:00	20.0

Entering New Unit Adjustment Factor value for PANTHER P/S PUMP**As Of**

12/ 1/1998

00:00

Until

1 / 1/1999

00:00

Value

20.0

Add

Reset

Submit

Contracts**Batch Scheduler****File Upload****Settlement****Meter Readings****Power System****Bids****Customers****Bill****About**

Administered Price
 Parameter Maintenance

Parameter: Adjusted Monthly Peak

Date
 From: Oct 1, 1998
 To: Nov 1, 1998
 OK

Select Customer
 Cadillac Gen Co.
 Mustang Retail Co.
 Rolls Royce Utility
 Mercedes Utility
 Nicor MISC
 Retrieve

As Of: 10/1/1998
 Until: 11/1/1998
 Value: 30.0

Entering Adjusted Monthly Peak Load value for Cadillac Gen Co.
 As Of: 10/1/1998
 Until: 11/1/1998
 Value: 30.0
 Add
 Reset
 Submit

Administered Price **Parameter Maintenance**

Parameter:

Trading Interval
Trading Interval
Est. New Unit Adj. Factor
HQ FEC
ISO Objective Capability
Phase Out Factor
Regs-MW Conv. Factor
HQ Loss Factor
MEPCO Loss Factor

Select Market/Service

Energy
AGC
TMSR
TMNSR
TMOD

Retrieve

As Of	Market	Length	Measure
01/01/1998 14:17	Energy	1	HOUR

Entering Trading Interval value for Energy

As Of	Market	Length	Measure
12/ 1/1998		0	MINUTE

Add

Reset

Submit

Contracts**File Upload****Meter Readings****Bids****Bill****Batch Scheduler****Settlement****Power System****Customers****About**

energy exchange™

Settlement



Administered Price Parameter Maintenance

Parameter:

- Trading Interval
- Maximum Uplift Threshold
- New Unit Adj. Factor
- Unit Adj. Avail. with
- Unit Adj. Avail. without
- Unit Target Availability
- Adjusted Monthly Peak
- HQ NICC
- Outside Trans. Adj.

Select Market Service

- Energy
- AGC
- TMSR
- TMNSR
- TMOD

Retrieve

Entering Trading Interval value for Energy

As Of	Market	Length	Measure
12/1/1998	00:00	0	MINUTE

Add

Reset

Submit

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

Adjustments
Market System

New Existing Search Helper

Choose Adjustment Type:
☒ Balanced
☐ UnBalanced

Adjustment Date
11/17/1998 09:32:09

Adjustment Reason
Reactivation Adjustment

Document Reference
11-01-98 React Adjust.doc

☒ Enclosure

Adjustment Description
Cadillac Gen Co was undercharged for past adj

Customer Name	Adjustment Amount (\$)
Cadillac Gen Co	100.00
Mercedes Utility	-100.00

Net Balance
\$ 0.00

Clear Fields Submit

energy exchange™



Bill



Adjustments Market System

Invoice Processing Date

11/17/1998

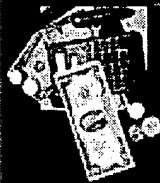
Market System Details Customer Invoice

Energy	AGC	TMSR	TMNSR	Receivables	Payables
Catillac Gen Co.	\$ 3,300.00	\$ 0.00	\$ 268.00	\$ 7,011.00	
Mustang Retail Co.	\$ 1474.14	\$ 0.00	\$ 327.58	\$ 6,977.58	
Rolls Royce Utility	\$ 1024.14	\$ 0.00	\$ 56.41	\$ 3,548.57	
Mercedes Utility	\$ 801.71	\$ 5,110.33	\$ 15.17	\$ 3,515.16	
Hydro-Quebec	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	
NEPOOL	\$ 0.00			\$ 0.00	
Total	\$ 0.00	\$ 0.00	\$ 0.00	\$ 10,528.16	\$ 10,528.16

Details

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

energy exchange™



Bill

Home

Adjustments Market System

Market System Details Customer Invoice

Customer Name

Cadillac Gen Co.

Net Invoice Total:

\$ 11,511.00

Billed Service

Date

Amount

Invoice Processing Date

11/16/1998

<input type="checkbox"/> Energy	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 3,800.00
<input type="checkbox"/> Energy Market		\$ 3,800.00
<input type="checkbox"/> Sum of Energy Settlement		\$ 3,300.00
<input type="checkbox"/> Sum of Uplift Pmt.		\$ 500.00
<input type="checkbox"/> Sum of Congestion Uplift Chg.		\$ 0.00
<input type="checkbox"/> Sum of Uplift Chg.		\$ 0.00
<input type="checkbox"/> Uplift Charge		\$ 0.00
<input type="checkbox"/> AGC	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 0.00
<input type="checkbox"/> TMSR	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 4,000.00
<input type="checkbox"/> TMNSR	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 256.00
<input type="checkbox"/> TMOR	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 50.00
<input type="checkbox"/> Operable Capability	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 3,405.00

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

Fig 7.2

energy exchange™

Meter Reading



Hourly Meter Readings

Monthly Meter Readings

Start

Results

1. Select Date

Nov

11

1998

2. Select Asset Type

All Assets

3. Select Display Criteria

☐ All Assets☐ Assets with missing readings

4. Retrieve Asset List

Retrieve

Select a Company

Cadillac Gen Co.

Clear All

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

[Hourly Meter Readings](#)
[Monthly Meter Readings](#)

Start

Results

5. Select Asset Name

Asset Name	Asset Type	Unit
AVALANCHE GAS		

Select a Company

Clear All

6. Enter readings for AVALANCHE GAS on Nov. 11, 1998

Hour Ending	Readings (MWh)
0200	50.0
0300	50.0
0400	50.0
0500	50.0
0600	50.0
0700	50.0
0800	50.0
0900	50.0
1000	50.0
1100	50.0
1200	50.0
1300	50.0

Reset Grid

Submit

Total MWh:

FIG 74

Hourly Meter Readings Monthly Meter Readings

Start Results

1. Select Year

1998

2. Select Asset Type

All Assets

3. Select Display Criteria

☐ All Assets

☐ Assets with missing readings

4. Retrieve Asset List

Retrieve

Select a Company

Cadillac Gen Co.

Clear All

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About

Hourly Meter Readings Monthly Meter Readings

Start Results

5. Select Asset Name

Asset Name	Asset Type
AVALANCHE GAS	Unit

Select a Company

Cadillac Gen Co

Clear All

6. Enter readings for AVALANCHE GAS for 1998

Month	Readings (MWh)
January	50.0
February	50.0
March	50.0
April	50.0
May	50.0
June	50.0
July	50.0
August	50.0
September	50.0
October	50.0
November	50.0
December	50.0

Reset Grid

Submit

05-13-10209A

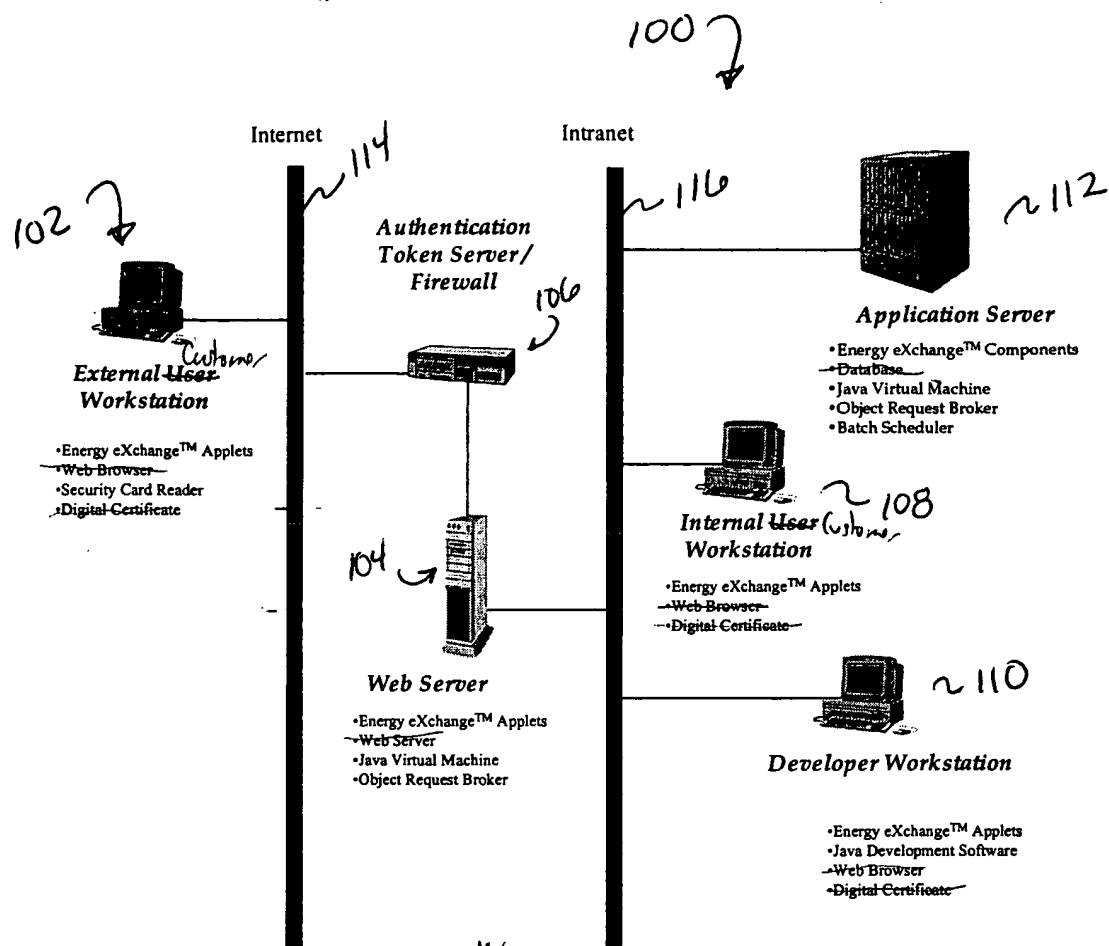


Figure 2: Technical Architecture

The diagram illustrates a complex network architecture. At the top, two T1 lines (Cisco-2514) connect to an OASIS Net. These lines pass through 3com 10baseT switches and firewalls to a central FDDI Ring. The ring is connected to various components including a Cisco-4500, 3com FDDI switches, 8400 Memory Channels, and storage units (Storage Tek Tape, 8400 DEV, Storage Works). External connections include 'To Pay Roll / Human-Resources', 'To EMS', 'To Office', and 'To OASIS Net'. Handwritten notes include '106', '100', '112', and '\$ 78'.

578

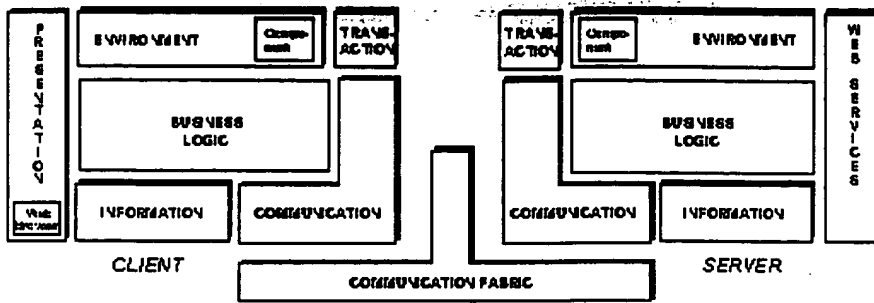


FIG. 79

09421713-102036

65020T ET 212460

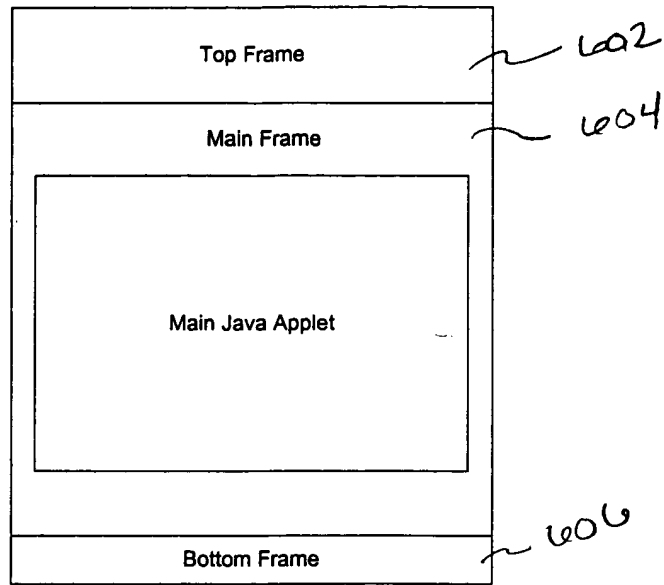
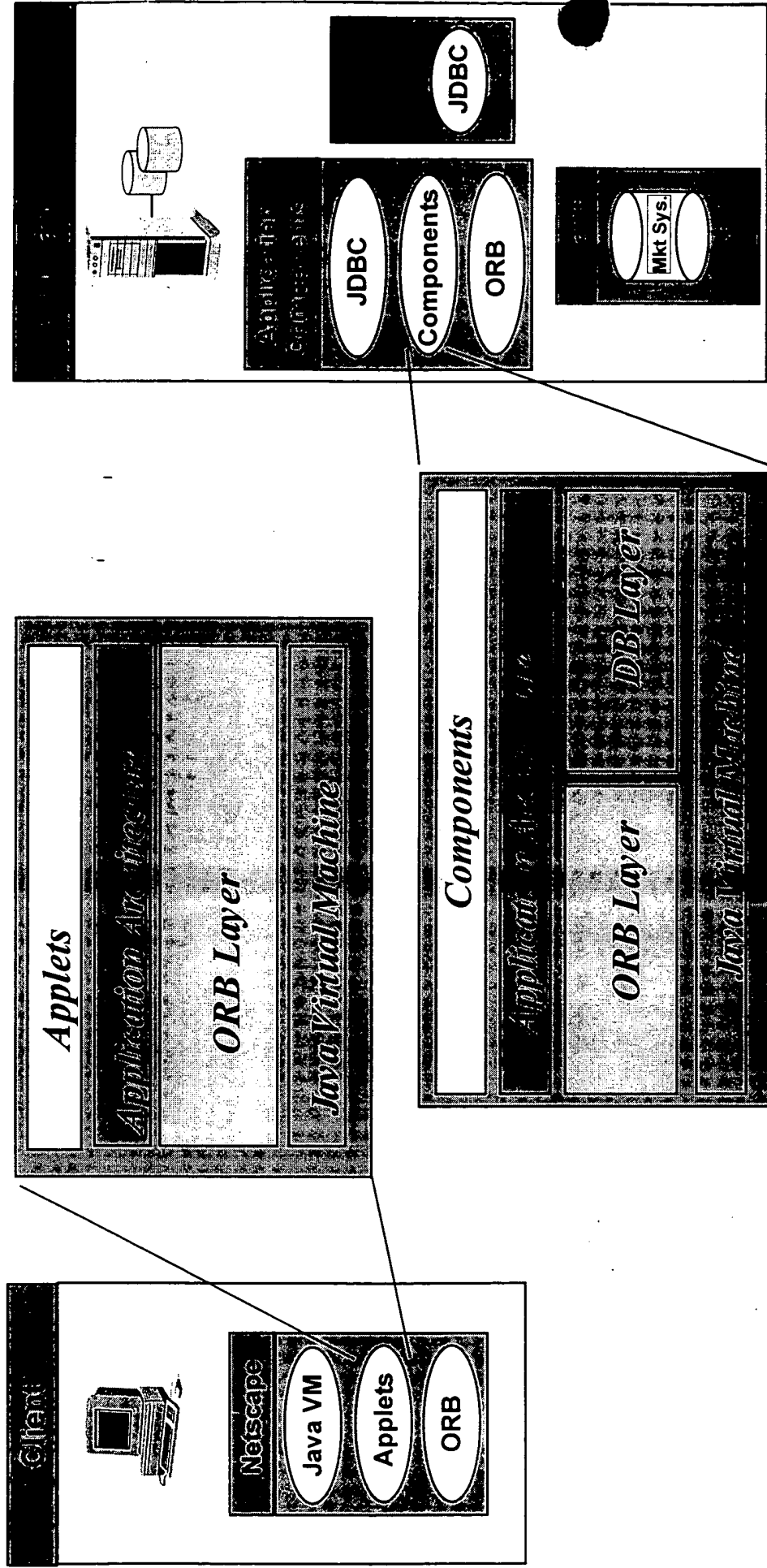


Figure 1 - Basic UI Design

80

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Application Architecture



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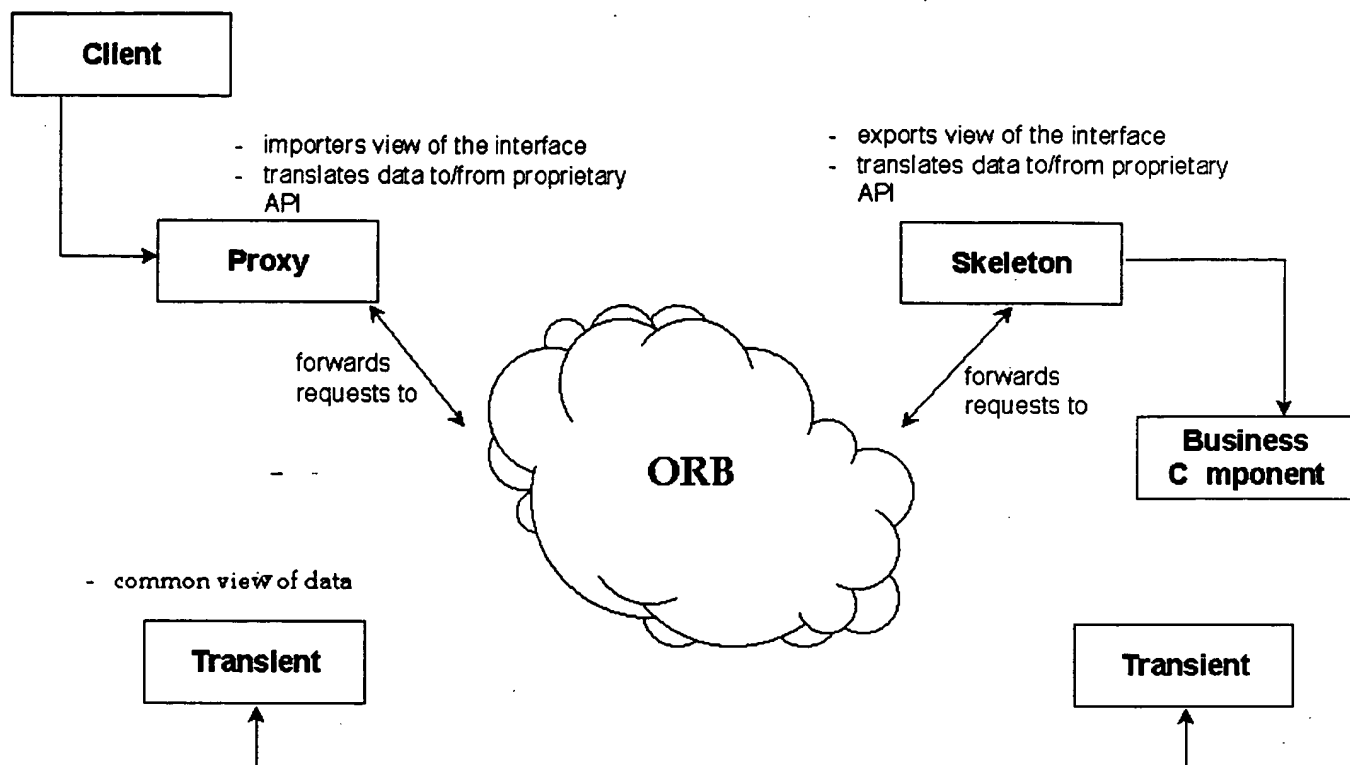


FIG. 82